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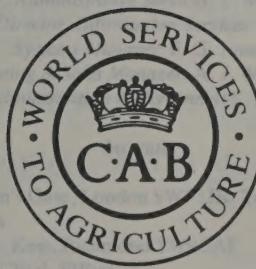
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The provision of information and scientific services in agriculture and related fields will remain the primary functions of C·A·B International. However, the organisation will also be aiming to provide a broader range of services and will be welcoming to membership other countries, including non-Commonwealth countries, which wish to join the traditional Commonwealth country membership.

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PROTOZOOLOGICAL ABSTRACTS

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ABBREVIATIONS USED IN PROTOZOOLOGICAL ABSTRACTS

Authors Addresses

Acad	Academy	Med	Medical, Medicine, etc.
Agric	Agricultural, Agriculture, etc.	Parasit	Parasitology
Agron	Agronomy	Path	Pathology
Ass	Association	Reg	Regional
Biol	Biology, Biological, etc.	Res	Research
Cent	Central	Sch	School
Coll	College	Sci	Scientific
Dep	Department	Soc	Society
Div	Division	Sta	Station
Exp	Experimental, Experiment	Tech	Technical
Fed	Federal	Trop	Tropical
Gov	Government	Univ	University
Inst	Institute	Vet	Veterinary
Lab	Laboratory	Zool	Zoology, Zoological, etc.

Language Symbols

Af	Afrikaans	It	Italian
Al	Albanian	Ja	Japanese
Ar	Arabic	Ko	Korean
AZ	Azerbaijan(i)/Azerbaijhan(i)/ Azerbaijhanian	La	Latin
Be	Belorussian	Lv	Latvian
Bg	Bulgarian	Li	Lithuanian
Ch	Chinese	Ma	Macedonian
Cr	Croat	My	Malay/BahasaMalaysia
Cs	Czech	No	Norwegian
Da	Danish	Pe	Persian
Nl	Dutch	Pl	Polish
En	English	Pt	Portuguese
Ee	Estonian	Ro	Romanian
Fi	Finnish	Ru	Russian
Nl	Flemish	Sr	Serbian
Fr	French	Sh	Serbo-Croat
De	German	Sk	Slovak
Gr	Greek	Sn	Slovene
He	Hebrew	Es	Spanish
Hu	Hungarian	Sv	Swedish
Is	Icelandic	Ta	Tajik/Tadzhik
In	Indonesian	Tr	Turkish
		Uk	Ukrainian

Taxonomic Abbreviations

n.sp.	new species
n.g.	new genus
n.comb.	new combination
syn.	synonym
sp.inq.	species inquirenda

nom.nov.	nomen novum
nom.nud.	nomen nudum
n.subsp.	new subspecies
n.ord.	new order
n.fam.	new family

General Abbreviations

The abbreviations used for the names of common units and chemical substances are in accordance with British Standard 1991: 1967. The following additional abbreviations are also used:

ACTH	adrenocorticotrophic hormone
ADP	adenosine diphosphate
a.i.	active ingredient
a.m.	morning
ATP	adenosine triphosphate
CFT	complement fixation test
CHR	cercarienhullenreaktion test
CNS	central nervous system
CSF	cerebro-spinal fluid
cv.	cultivar
DASS	defined antigen substrate spheres
DNA	deoxyribonucleic acid
e.g.	for example
ELIEDA	enzyme-linked immunoelctrodiffusion assay
ELISA	enzyme-linked immunosorbent assay
e.p.g.	eggs per gram
ES	excretory/secretory
F-	filial generation
FAO	Food & Agricultural Organization
FAT	fluorescent antibody test
Hb	haemoglobin
IHAT	indirect haemagglutination test
Hm/A	Helminthological Abstracts, Series A, Animal & Human Helminthology
Hm/B	Helminthological Abstracts, Series B, Plant Nematology
i.e.	that is
IEP	immunoelctrophoresis
Ig	immunoglobulin

i.p.	intraperitoneal
IU	international unit
i.v.	intravenous
L1-4	larval stage 1-4
LFT	latex flocculation test
mf	microfilaria
MIT	macrophage inhibition test
M(sm.cap.)	molar
P	parental generation
p.m.	afternoon
PCA	passive cutaneous anaphylaxis
PCV	packed cell volume
p.p.m.	parts per million
Pz	Protozoological Abstracts
RAST	radio allergosorbent test
RBC	red blood cell
resp.	respectively
RH	relative humidity
RNA	ribonucleic acid
USDA	United States Department of Agriculture
UV	ultra violet
var.	variety
v/v	volume/volume
WBC	white blood cell
WHO	World Health Organization
wt.	weight
w/v	weight/volume
w/w	weight/weight
yr	year

READER'S GUIDE

Protozoological Abstracts provides a monthly summary of the recent world literature on all aspects of work on parasitic protozoa (Sarcostigophora, Apicomplexa, Microspora, Ascetospora, Myxozoa, Ciliophora) including taxonomy and nomenclature, morphology and ultrastructure, evolution and genetics, biochemistry, physiology and behaviour, life-history, and the pathology, immunology, epidemiology and control of the infections they cause.

Coverage also includes the literature on potentially pathogenic free-living amoebae and on *Pneumocystis*. Areas of interest to parasitologists outside or peripheral to the scope of *Protozoological Abstracts*, such as the biology and control of insect vectors, disease caused by helminths or diseases due to bacterial or mycotic infection, are fully covered by other CAB abstract journals, respectively, *Review of Applied Entomology Series B - Medical and Veterinary, Helminthological Abstracts, Series A, Animal and Human Helminthology, Veterinary Bulletin* and *Review of Medical and Veterinary Mycology*.

The abstracts enable readers to keep themselves informed of the progress of current work and allow them to decide whether or not they need to see the original document.

Photocopies of most of the papers abstracted are obtainable through the Library of the Commonwealth Institute of Parasitology, but to satisfy copyright regulations enquirers are urged to use a copy of the copyright form printed in the front of each issue of *Protozoological Abstracts*.

Over 2000 serial publications as well as books, reports and theses are regularly examined for relevant material, principally research findings and reviews. Some background papers may be abstracted briefly and others of local or marginal interest are referred to by title only. Authors' summaries are used whenever they are considered suitable. A special effort is made to provide informative abstracts of papers in the less commonly used languages and from less easily obtained journals.

When consulting an entry the reader should remember that the title is an integral part of the abstract and may include information necessary for its full comprehension.

In a typical entry the name(s) of the author(s) are followed by the title of the paper in English. If the paper is written in a language other than English, the English translation of the title is enclosed in square brackets. The title in the original language, if not English, follows, except for Arabic, Chinese, Japanese etc. Cyrillic characters are transliterated for the titles of books but not for the titles of papers. Journal titles are next given in unabbreviated form. The year of issue, in round brackets, the volume number, part number in round brackets, and first and last page numbers of the article complete the basic citation.

Supplementary details given in square brackets include the language of the paper (a two-letter abbreviation with an initial capital) and the language of any summary or summaries in languages other than that of the paper (a similar abbreviation without an initial capital); the number of references, plates, figures, graphs, maps, tables may also be included. The address of the first author is usually given in abbreviated form. Some commonly used abbreviations are listed in this issue.

Conference papers, whether published in book form or as proceedings, appear either as a single general abstract under the classification "Conferences" or as a number of abstracts under appropriate classifications with a single general entry under "Conferences". Conference abstracts are not abstracted.

Every effort is made to achieve consistency in the nomenclature of protozoa used in *Protozoological Abstracts*. Preferred names, as defined by the International Commission for Zoological Nomenclature are used in the abstracts, sometimes introduced by square brackets, and also in the subject index. Hosts are usually given as in the original paper although an effort is made to use the Latin name, if it is known, in preference to the common name. Only the well known domestic and laboratory animals are referred to by their common names.

Antiprotozoal drugs and other medication used for, or associated with, the treatment of protozoal diseases are usually given in the abstract in the same form as in the original paper, but the preferred form will be used in the subject index.

Within *Protozoological Abstracts* the abstracts are arranged under Classifications that reflect the main emphasis of the work. When more than one aspect is covered in a paper there may be a cross reference between Classifications but the abstract will appear only once. However, the Classification "Taxonomy and Nomenclature" has highest priority so that abstracts containing descriptions of new taxa will appear in this section even if the main part of the work may be appropriate to some other Classification. The Classification must be seen as a rough guide only and reference should be made to the subject index for more specific searching.

The subject index is a parasite-orientated index, so that entries are under parasite and host rather than disease. Thus all papers on malaria will be indexed under the name of the relevant *Plasmodium* species (see notes for Subject Index for additional information).

Access to most of the papers abstracted in *Protozoological Abstracts* is available within the Institute with the aid of cumulated indices, and, along with extensive library holdings of journals, books and reprints, these represent one of the world's most significant collections of information on parasitology. Readers are encouraged to write to the Institute if they have any problems with the protozoological literature or to visit the library themselves to carry out bibliographical research.

On-line facilities are also available for searching all abstracts published in *Protozoological Abstracts* and for those published in other CAB journals since 1973. From time to time, review articles by authoritative authors are published in *Protozoological Abstracts* and staff of the Institute provide Annotated Bibliographies and other publications in protozoology.

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ISSN 0309-1287

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The Institute houses extensive reference collections of both plant-parasitic nematodes and helminths, the latter including the WHO Filarial Reference Collection and personal collections of several eminent helminthologists.

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This unit was established to complement the identification work of the Institute by giving advice on the economic importance of plant nematodes and on practical control measures.

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This unit was established in 1984 as part of the WHO Onchocerciasis Chemotherapy Project to investigate the possibilities of *in vitro* culture of *Onchocerca* (the cause of River Blindness in Africa) with a view to the eventual production of an *in vitro* screening technique for drugs active against *Onchocerca*.

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AUTHOR INDEX

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries and there are no cross-references to show joint authorship. Thus a paper by "Brown, B.; Jones, A.; Smith, J." would have three separate entries: "Brown, B.", "Jones, A.", and "Smith, J.". There is no distinction between subsidiary and senior authors. Apparent inconsistencies may appear in the spelling of authors' names; this is because variations in spelling occur in primary journals. Authors' names in this index are spelt as they appeared in the original paper. If we have knowledge of their identity, alternative versions may also be given.

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SUBJECT INDEX

Beginning with Volume 7 the structure of the subject index of this journal changed slightly. This was partly due to the development of the *CAB Thesaurus* and partly to the need to conform to a standard index structure common to all CAB journals. Most leading terms therefore conform to the preferred terms as listed in the *CAB Thesaurus* [copies are obtainable from CAB (Central Sales), Farnham House, Farnham Royal, Slough SL2 3BN, UK].

The reference is to the serial number of the citation. No distinction is made between abstract and title-only entries. The leading key word unit in an entry appears in **bold type**. Aggregation of entries sharing identical keyword units is indicated by indentation. Basically there are four levels of indentation — parasite, host, country, subject aspect.

Hosts are indexed under their specific names, where given, except domesticated animals (e.g. cats, pigs, sheep) and where numerous hosts of the same group are listed in the one paper (e.g. Amphibia, birds). The use of alternative scientific names for host or parasite is avoided wherever possible but in cases in which nomenclatorial or taxonomic confusion still exists the same organism may appear under more than one name.

In an index of this kind it is not possible to assume that any chosen entry will necessarily give complete coverage of the subject in question. After consulting the chosen entry it may be necessary to consult index entries for related larger or smaller groupings or for alternative names.

Thus, when the subject matter concerns organisms, whether host or parasite, entries concerned with related group, generic or popular names should be consulted, e.g.

Rodents, see also *Animals, Mammals, Muridae, Rattus, Vertebrates, etc.*

Eimeria, see also *Coccidia*

A similar procedure is necessary with geographical entries, e.g.

East Africa, see also *Africa, Kenya, Tanzania, Uganda*

New records are identified by “new host record” for the first record of the named parasite in the named host and by “new geographic record” for the first record of the named parasite in the named country or region.

Antiprotozoal drugs are indexed by their common name (where known), their trade name, protocode number, or by their chemical name. Wherever possible proprietary drugs are cross-referenced to the appropriate common name. No classification of the drugs is attempted.

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